



Replacement Sheet

THE INTERNATIONAL PHONETIC ALPHABET (REVISED TO 1993)  
CONSONANTS (PULMONIC)

|                     | BILABIAL | LABIODENTAL | DENTAL | ALVEOLAR | POSTAL | VEOLAR | RETROFLEX | PALATAL | VELAR | UVULAR | PHARYNGEAL | GLOTTAL |
|---------------------|----------|-------------|--------|----------|--------|--------|-----------|---------|-------|--------|------------|---------|
| PLOSIVE             | p b      |             | t d    |          |        |        | ʈ ɖ       | c ɟ     | k ɡ   | q ɢ    |            | ʔ       |
| NASAL               | m        | ɱ           | n      |          |        |        | ɳ         | ɲ       | ŋ     | ɴ      |            |         |
| TRILL               |          |             | r      |          |        |        |           |         |       | ʀ      |            |         |
| TAP OR FLAP         |          |             | ɾ      |          |        |        | ɽ         |         |       |        |            |         |
| FRICATIVE           | ɸ β      | f v         | θ ð    | s z      | ʃ ʒ    |        | ʂ ʐ       | ç ʝ     | x ɣ   | χ ʁ    | ħ ʕ        | h ɦ     |
| LATERAL FRICATIVE   |          |             |        | ɬ ɮ      |        |        |           |         |       |        |            |         |
| APPROXIMANT         |          | ʋ           | ɹ      | ɻ        |        |        | ɻ         | j       | ɰ     |        |            |         |
| LATERAL APPROXIMANT |          |             |        | l        |        |        | ɭ         | ʎ       | ʟ     |        |            |         |

WHERE SYMBOLS APPEAR IN PAIRS, THE ONE TO THE RIGHT REPRESENTS A VOICED CONSONANT.  
SHADED AREAS DENOTE ARTICULATIONS JUDGED IMPOSSIBLE.

CONSONANTS (NON-PULMONIC)

| CLICKS             | VOICED IMPLOSIVES | ELECTIVES            |
|--------------------|-------------------|----------------------|
| ◌ Bilabial         | ◌ Bilabial        | ◌ AS IN:             |
| ◌ Dental           | ◌ Dental/Alveolar | ◌ Bilabial           |
| ◌ Postalveolar     | ◌ Palatal         | ◌ Dental/Alveolar    |
| ◌ Palatoalveolar   | ◌ Velar           | ◌ Velar              |
| ◌ Alveolar lateral | ◌ Uvular          | ◌ Alveolar fricative |

| SUPRASEGMENTALS                | TONES & WORD ACCENTS  |
|--------------------------------|-----------------------|
| ˈ PRIMARY STRESS               | ˈ LEVEL               |
| ˌ SECONDARY STRESS             | ˌ LEVEL               |
| ː LONG                         | ː EXTRA HIGH          |
| ˑ HALF-LONG                    | ˑ HIGH                |
| ˒ EXTRA-SHORT                  | ˒ HIGH                |
| ˑ SYLLABLE BREAK               | ˑ MID                 |
| ˑ MINOR (FOOT) BREAK           | ˑ LOW                 |
| ˑ MAJOR (INTONATION) GROUP     | ˑ EXTRA               |
| ˑ LINKING (ABSENCE OF A BREAK) | ˑ LOW                 |
|                                | ˑ RISING-FALLING ETC. |
|                                | ˑ GLOBAL RISE         |
|                                | ˑ GLOBAL FALL         |

FIG. 1

TO FIG. 1 CONT.

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FROM FIG. 1

